

REMARKS/ARGUMENTS

Claims 1-33 are pending in the application, and new claims 34-37 are herewith presented for examination. Applicants appreciate the indication that claim 30 has been allowed and that claims 9, 11, 25 and 26 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 8 and 25 have been amended in accordance with the Examiner's requirements. Claims 1-7, 10, 12-22, 27 and 31 stand rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,509,743 to Ferrero. Claims 23, 24, 28, 29, 32 and 33 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrero. Claim 8 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrero, in view of U.S. Patent No. 7,440,576 to Jeon et al. These rejections are respectfully traversed.

Claim 1 has been amended to include a feedback circuit arranged (i) to receive an output signal from the device to be analyzed, (ii) to modify the signal, the modification including limiting the magnitude gain of the feedback circuit at frequencies outside a band of frequencies to essentially no magnitude gain, (iii) to feed the modified signal back to the device to be analyzed, the modified signal fed back comprising a component having a frequency within said band, and (iv) to control the magnitude gain of the feedback circuit at frequencies inside the band of frequencies to other than essentially no magnitude gain. The basis for this amendment can be found in part at paragraph [0011] of the specification, which also identifies an exemplary technical advantage that controlling the magnitude gain of the feedback circuit at frequencies inside the band of frequencies avoids system lock-ups or instabilities caused by positive feedback loops at certain frequencies within the frequency range. It is noted that claim 1 as amended does not require all of the frequencies outside of the band of frequencies to be modified, while in contrast, Ferrero discloses the use of a pass-band filter (A_L) that modifies all frequencies in a band without specifying the frequencies considered to be inside or outside of the band. The system of Ferrero also permits oscillations to occur within the pass band, see col. 3, lines 30-35. As such, Ferrero does not anticipate or render obvious claim 1 as amended.

Claims 14 as amended includes modify the signal to limit the magnitude gain of the feedback circuit at frequencies outside the range of frequencies, and feeding the modified signal back to the device to be analyzed, wherein the feedback circuit is arranged to control the magnitude gain of the feedback circuit at all frequencies within the frequency range. Claim 16

as amended includes modifying an output signal from the device, the modification including limiting the magnitude gain of the feedback circuit at frequencies outside a band of frequencies, and then feeding the modified signal back to the device, thereby forming a feedback loop, wherein the magnitude gain of the feedback loop is controlled at frequencies inside the frequency range. As such, claims 14 and 16 as amended are distinguishable from Ferrero based on the same reasoning discussed above. All other claims besides new claims 34-37 are believed to be allowable at least for the reasons that they depend from an allowable base claim and add limitations not found in or suggest by the prior art. New claims 34-37 include the limitations of claims 9, 11, 25 and 26, rewritten in independent form including all of the limitations of the base claim and any intervening claims.

CONCLUSION

In view of the foregoing remarks and for various other reasons readily apparent, Applicant submits that all of the claims now present are allowable, and withdrawal of the rejection and a Notice of Allowance are courteously solicited.

If any impediment to the allowance of the claims remains after consideration of this amendment, a telephone interview with the Examiner is hereby requested by the undersigned at (214) 953-5990 so that such issues may be resolved as expeditiously as possible.

A Petition for 1-Month Extension of Time is included with this response. The Commissioner is authorized to charge the extension fee in the amount of \$65.00 to Deposit Account No. 10-0096. Additional claim fees are also due with this response. Four independent claims have been added at a cost of \$440.00, and 5 dependent claims have been added at a cost of \$130.00, for a total of \$570.00 which will be charged to Deposit Account No. 10-0096. In addition, the Commissioner is hereby authorized to charge any fee that has been overlooked or to credit any refund to Deposit Account No. 10-0096.

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Respectfully submitted,

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